



<b>FORM 1449*</b> <b>INFORMATION DISCLOSURE STATEMENT</b> <b>IN AN APPLICATION</b> (Use several sheets if necessary)	Docket Number: 163.1269US01	Application Number: 09/585,009
	Applicant: SMITH ET AL.	
	Filing Date: 06/01/2000	Group Art Unit: 1751

U.S. PATENT DOCUMENTS						
EXAMINER INITIAL	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
zmk	4,595,520	06/17/1986	Heile et al.	—	—	
	4,680,134	07/14/1987	Heile et al.	—	—	
	Re. 32,763	10/11/1988	Fernholtz et al.	—	—	
	Re. 32,818	01/03/1989	Fernholz et al.	—	—	
	4,931,202	06/05/1990	Cotter et al.	—	—	
	5,078,301	01/07/1992	Gladfelter et al.	—	—	
	5,080,819	01/14/1992	Morganson et al.	—	—	
	5,482,641	01/09/1996	Fleisher	—	—	
✓	5,670,467	09/23/1997	Fleisher	—	—	

  

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
zmk	158897	07/15/1975	CS	—	—	Abstract	
	2526967	01/29/1976	DE	—	—	Abstract	
	3431978 A1	03/06/1986	DE	—	—	Abstract	
	3541153 A1	05/27/1987	DE	—	—	Abstract	
	53120697	10/21/1978	JP	—	—	Abstract	
	60023159	06/06/1985	JP	—	—	Abstract	
—	04055309 A2	02/24/1992	JP	—	—	Abstract	
—	09176691 A2	07/08/1997	JP	—	—	Abstract	

  

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
zmk	✓	Akiya, T. et al., "Scaling of Sodium Hydroxide 3.5 Hydrate from Sodium Hydroxide-potassium Hydroxide-water System", <i>Rikogaku Kenkyusho Hokoku, Waseda Daigaku</i> , Vol. 119, pp. 49-55 (1987) (1 page of abstract)
	✓	Andon, R. et al., "Thermodynamic Properties of Phosphorus Compounds. II. Low-temperature Heat Capacity and Entropy of Sodium mono-, di-, and Triphosphates", <i>J. Appl. Chem.</i> , Vol. 17, No. 3, pp. 65-70 (1967) (1 page of abstract)
	✓	Burylev, B. et al., "Calculation of the Standard Enthalpies of Formation of Hydrated Sodium Salts", <i>Inorg. Mater.</i> , Vol. 31, No. 6, pp. 727-729 (1995) (1 page of abstract)
✓	✓	Dolkart, A. et al., "Study and Production of Dehydrated Sodium Silicate and Compositions Based on it", <i>Deposited Doc. SPSTL 273 Khp-D82</i> , 11 pp. (1982) (1 page of abstract)

EXAMINER <i>Lorna M. Sawyer</i>	DATE CONSIDERED <i>9-16-02</i>
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Lmk	✓	Felsche, J. et al., "Thermal Studies on Sodium Silicate Hydrates. II. Disodium Dihydrogensilicate Hydrates, Na <sub>2</sub> H <sub>2</sub> SiO <sub>4</sub> .n H <sub>2</sub> O (n=4, 5, 7, 8); Melting Characteristics and Solidification of Glasslike Hydrate Phases at Low Temperatures", <i>Thermochim. Acta</i> , Vol. 77, Nos. 1-3, pp. 109-21 (1984) (1 page of abstract)
	✓	Galogaza, V. et al. "Some Features of Thermal Behavior of Sodium Triphosphate Hexahydrate, Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> .6H <sub>2</sub> O", <i>Thermochim. Acta</i> , Vol. 106, pp. 141-154 (1986) (1 page of abstract)
	✓	Gould, R. et al., "Thermal Properties of Sodium Metasilicate Hydrates", <i>Thermochim. Acta</i> , Vol. 14, No. 3, pp. 299-303 (1976) (1 page of abstract)
	✓	Gould, R. et al., "Vapor Pressures and Thermodynamic Properties of Sodium Metasilicate Hydrates", <i>J. Chem. Thermodyn.</i> , Vol. 8, No. 3, pp. 277-282 (1976) (1 page of abstract)
	✓	Guion, J. et al., "Critical Examination and Experimental Determination of Melting Enthalpies and Entropies of Salt Hydrates", <i>Thermochim. Acta</i> , Vol. 67, Nos. 2-3, pp. 167-179 (1983) (1 page of abstract)
	✓	Hayano, I. et al., "Melting Point of NaOH.3.5H <sub>2</sub> O in Sodium Hydroxide-potassium Hydroxide-water System", <i>Nippon Kaisui Gakkai-Shi</i> , Vol. 24, No. 132, pp. 253-258 (1971) (1 page of abstract)
	✓	Hayano, I. et al., "Melting Point of Sodium Hydroxide-3.5water and the Behavior of Sodium Chloride and Potassium Chloride in the Sodium Hydroxide-potassium Hydroxide-sodium Chloride-potassium Chloride-water System", <i>Nippon Kaisui Gakkai-Shi</i> , Vol. 29, No. 6, pp. 261-270 (1976) (1 page of abstract)
	✓	Irving, R. et al., "Standard Heats of Formation of the Sodium Triphosphates Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> (cl), Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> (cl), and Na <sub>5</sub> P <sub>3</sub> O <sub>10</sub> .6H <sub>2</sub> O(c)", <i>Trans. Faraday Soc.</i> , Vol. 64, No. 4, pp. 875-878 (1968) (1 page of abstract)
	✓	Jotshi, C. et al., "Thermal Energy Storage in Phase Change Materials for Heating Applications", <i>Proc. Intersoc. Energy Convers. Eng. Conf.</i> , Vol. 2, 30th, pp. 207-212 (1995) (1 page of abstract)
	✓	Leipoldt, D., "Cold and Heat Storage by Phase Transformations of Material Mixtures", <i>DKV-Tagungsber.</i> , Vol. 13, pp. 253-266 (1986) (1 page of abstract)
	✓	Mollakov, B. et al., "Heat-accumulating Possibilities of Sodium Hydroxide Monohydrate in Water Solutions", <i>Izv. Akad. Nauk Turkm. SSR, Ser. Fiz.-Tekh. Khim. Geol. Nauk</i> , No. 5, pp. 89-91 (1987) (1 page of abstract)
	✓	Mraw, S. et al., "Entropies of the Hydrates of Sodium Hydroxide. III. Low-temperature Heat Capabilities and Heats of Fusion of the .Alpha. and .Beta. Crystalline Forms of Sodium Hydroxide Tetrahydrate", <i>J. Phys. Chem.</i> , Vol. 78, No. 17, pp. 1704-1709 (1974) (1 page of abstract)
	✓	Porisini, F., "Salt Hydrates used for Latent Heat Storage: Corrosion of Metals and Reliability of Thermal Performance", <i>Sol. Energy</i> , Vol. 41, No. 2, pp. 193-197 (1988) (1 page of abstract)
	✓	Siemens, P. et al., "Entropies of the Hydrates of Sodium Hydroxide. II. Low-temperature Heat Capabilities and Heats of Fusion of NaOH.2H <sub>2</sub> O and NaOH.3.5H <sub>2</sub> O", <i>J. Phys. Chem.</i> , Vol. 73, No. 1, pp. 149-157 (1969) (1 page of abstract)
	✓	Siemens, P., "Hydrates of Sodium Hydroxide: Their Thermodynamic Properties at 298.15 deg.K. Entropies of NaOH.2H <sub>2</sub> O and NaOH.3.5H <sub>2</sub> O from their Low-temperature Heat Capacities", <i>Diss. Abstr. B</i> , Vol. 29, No. 12 (1969) (1 page of abstract)
	✓	Sharma, S. et al., "An Empirical Correlation for Viscosity of Molten Salt Hydrates", <i>Can. J. Chem. Eng.</i> , Vol. 62, pp. 431-433 (1984) (1 page of abstract)
	✓	Sharma, S. et al., "Viscosity of Molten Sodium Salt Hydrates", <i>J. Chem. Eng. Data</i> , Vol. 29, No. 3, pp. 245-246 (1984) (1 page of abstract)
	✓	Sharma, S. et al., "Density of Molten Salt Hydrates - Experimental Data and an Empirical Correlation", <i>Can. J. Chem. Eng.</i> , Vol. 65, No. 1, pp. 171-174 (1987) (1 page of abstract)

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Lynn M. Dwyer

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Lmt	—	Tereshkova, S., "Mechanism of Reciprocal-sequential Dehydration of Phosphate Hydrate Crystals", <i>Zh. Fiz. Khim.</i> , Vol. 68, No. 4, pp. 742-746 (1994) (1 page of abstract)
	—	Tereshkova, S., et al. "Thermochemistry of the Multistep Transformations of Pentasodium Triphosphate and Trisodium Tricyclopophosphate Crystal Hydrates", <i>Zh. Fiz. Khim.</i> , Vol. 66, No. 10, pp. 2604-2611 (1992) (1 page of abstract)
↓	—	Watanabe, M. et al., "Thermal Behavior of Hydrated Triphosphates", <i>Phosphorus Res. Bull.</i> , Vol. 4, pp. 117-122 (1994) (1 page of abstract)



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